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(54) Title: SYSTEM FOR DETERMINING FILTER STATUS

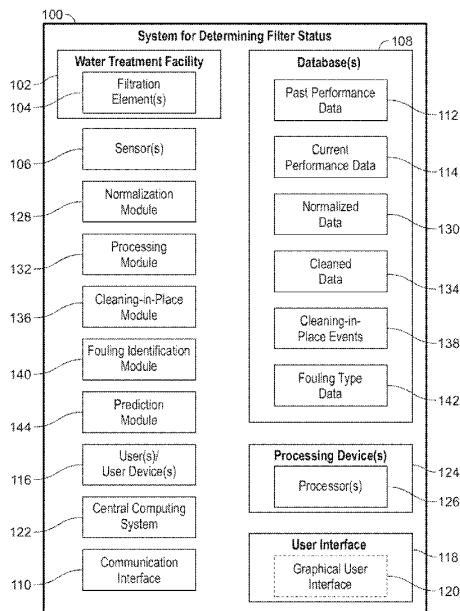


FIG. 4

(57) Abstract: An example system for determining a filter status is provided. The system includes a database configured to electronically store data, the data including past performance data of one or more water filtration elements. The system includes a processing device in communication with the database. The processing device is configured to receive as input the past performance data, and identify one or more data points within the past performance data indicative of a cleaning event for the water filtration elements. The processing device is configured to divide the past performance data into individual data segments, each of the individual data segments representing data of the past performance data in-between respective identified cleaning events, fit a mathematical function to each of the individual data segments, and identify a type of fouling occurring during each of the individual data segments based on the mathematical function fitted to the respective individual data segment.

[Continued on next page]

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